

### **REMARKS**

Claims 20 to 38 are pending in this case. Claims 1 to 19 have been cancelled without prejudice. New claims 20 to 38 have been added to advance the prosecution of the subject application. New claims 20 - 38 are supported by the original specification including claims and by the drawings. For example, new claims 20 - 22 are supported by Figures 3 and 5. New claims 23 - 25 are supported by the descriptions on page 10, lines 6 and 7 of the specification. The disclosure has been amended to remove numeral reference "28." Figures 1 and 2 in the drawings have been amended to show the legend of "Prior Art" as suggested in the Office Action. Annotated and replacement sheets of Figures 1 and 2 are attached herewith. Formal drawings are also being submitted under a separate letter to replace the originally filed drawings. The Examiner is respectfully requested to reconsider the subject application in view of the above amendments and the following remarks.

Claims 1 to 19 have been rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention for reasons set forth on page 2 of the Office action. The subject rejection is moot in view of the above claim cancellation. New claims 20 - 38 each recite loop-entry and loop-exit segments that "extend generally vertically" and thus meet the requisites of the above cited statute provision.

The Office Action, on page 3, suggests that Figures 1 and 2 be designated by a legend such as "Prior Art." In response, applicants amended Figures 1 and 2 as shown in the attached annotated and replacement sheets of the amended drawings.

The drawings have been objected to for an informality indicated on page 3 of the Office Action. In response, applicants deleted the numeral reference "28" from page 7, line 28 of the specification. Accordingly, the subject objection is believed to have been overcome.

Claims 1-6, 10-12, and 17-19 have been rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,160,518 to Miyahara et al. for the reasons set forth on pages 4 and 5 of the Action. The subject rejection is moot in view of the above claim cancellation.

New claims 20 to 38 have been added each recite a vehicular screen antenna. Applicants respectfully submit the claim features in the above new claims are not taught by *Miyahara et al.*

*Miyahara et al.* discloses a balanced window antenna formed by combining two balanced wire loop antennas 21 and 22 (see, e.g., Figure 2). In the antenna of *Miyahara et al.*, the feedpoint 17 connects to the signal feedline of cable 20 and the feedpoint 18 connects to the ground of the cable 20. If the grounded feedpoint 18 were to be disconnected from ground, then the antenna would no longer be a balanced antenna but would be re-classified as an unbalanced antenna. In that case, the signal on the wire loop from the feedpoint 17 would interact with that part of the vehicle chassis surrounding the window, causing currents to flow in the chassis toward the window. Accordingly, one skilled in the art would not be motivated to modify the antenna of *Miyahara et al.* to disconnect the grounded feedpoint 18.

In contrast, the antenna of the claimed invention is a hybrid antenna. Neither one of the feedpoints in the claimed antenna connects directly to ground. The non-signal feedpoint connects to the ground not directly but through a reactive coupling. Applicants wish to draw the Examiner's attention to Figures 3 and 5 of the subject application for further illustration of the claimed features.

In the claimed invention, the indirect connection to ground provide by the stub segment or resonant circuitry allows for AM reception. As a result, the antenna of the claimed invention is capable of receiving signals in both AM and FM bands.

On the other hand, the balanced antenna of *Miyahara et al.* (or any other antenna whose ground feedpoint connects to the ground of a transmission line)

cannot receive signals in the AM band. Indeed, *Miyahara et al.* states that its antenna receives signals only in two DAB bands (col. 1, ll. 7-10).

In view of the forgoing, the present invention as recited in new claims 20 to 38 patentably distinguishes over *Miyahara et al.* Each of the pending claims in this application is believed to be in immediate condition for allowance and such action is earnestly solicited.

Respectfully submitted,

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Enclosures:

Annotated and replacement sheets of Figures 1 and 2.

**AMENDMENTS TO THE DRAWINGS:**

The attached replacement sheet of drawings includes changes made to Figs. 1 and 2. This sheet, which includes Fig. 1 and 2, replaces the original sheet including the same figures. In Figs. 1 and 2, the legend "Prior Art" has been added as suggested in the Office Action.

Attachment: Replacement Sheet

Annotated Sheet Showing Changes

Annotated Sheet

WO 2004/010529

PCT/GB2003/003260

1/5

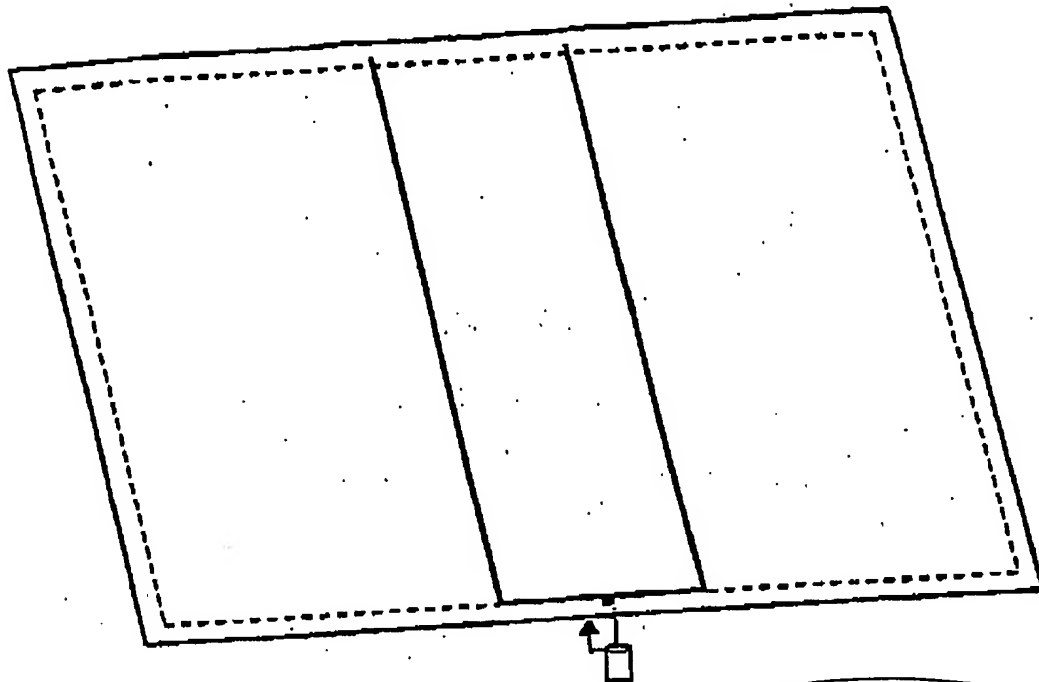


FIGURE 1 (Prior Art)

Legend Added

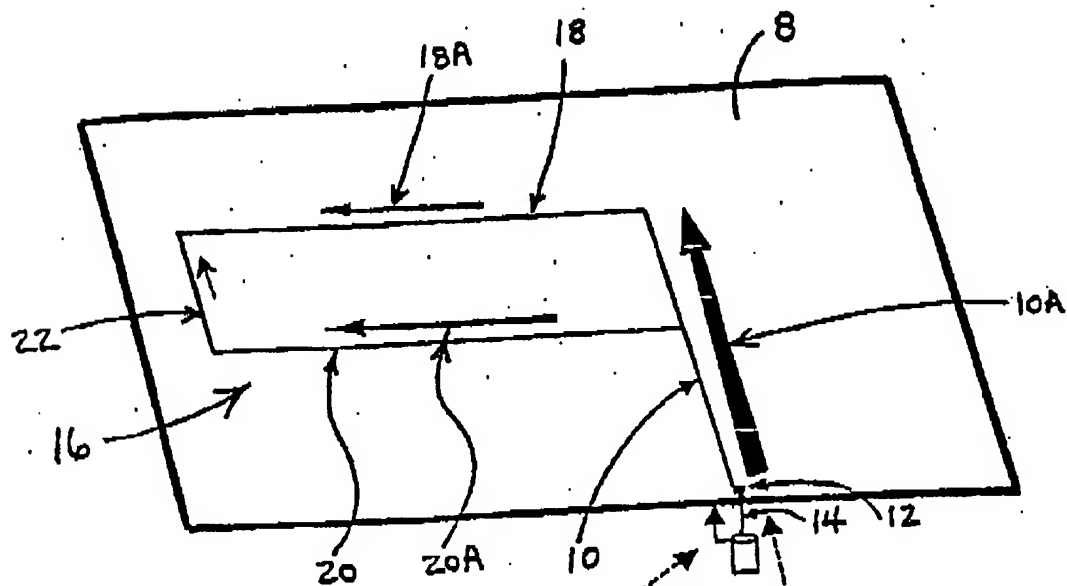


FIGURE 2

Legend Added \* (Prior Art)